# CONSTRUCTION VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

MISSOURI	DEPARTMENT OF	TRANSPORTATION	
Contract ID 090925-703		Date	3/11/10
County Vernon	Route 71	Original Bid Cost \$271,	194 15
Contractor APAC-Missouri, Inc.	a 32	By Tyson Collins	177110
Designed By APAC-Missouri, Inc.		Phone 417-868-6700	
VECP - 10-51			<u> </u>
1. Description of existing requireme	nts and proposed char	nge(s). Advantages/Disadva	antages
Proposed Change in Pavement. This Value Engineering Proposal is replacement. The original design of to 766+04.13 on the north and south 2" below existing grade and place 2 (see attached typical section). In adeliminated in this area. This proposa are not removing pavement on exist Type C Barrier wall that will need to the small quantity. A significant quiproposing to lay the A-2 shoulder or provide MODOT with another altern offs. This operation would also elim during construction of the median or save Missouri tax payer dollars. Save Engineering Specifications.	alls for full depth replace in bound lanes. By eliming mate dition, the need for subulation also eliminates striping Rt. 71. There will be be constructed. APAC antity change has increased dirt, eliminating all banative other than removing a much safer environgs will be spit 50%/50	cement for A-2 shoulders from the continuing excavation in this area cerial to match flush to existing a grade preparation and base rong and rumble strips for this pube 62.6 SY of A-2 shoulder upon C is proposing to change the based the price of the A-2 shouldes erock. The advantage of the ring structural pavement and cong a lane drop up on Rt. 71 for vironment for the traveling public (MODOT/APAC) in acceptance of the congression of the congress	n station 747+95.00 a, APAC will mill g Rt. 71 pavement ock would be project, because we inder the proposed bit base to BP-1 for alder. APAC is also e change is to creating edge drop or several days ablic and would also ordance with Value
All pavement marking and rumble st Rt. 71 in this section later this year. on the same section in the same year on this contract, J7P0863. On currence median BP-1 and taper to zero a section).	By doing so MoDOT was APAC will not be respect to contract J7P0824C the	would not be placing rumble s sponsible for pavement marking ne contractor should overlay to	trips and striping ng or rumble strips wo feet onto the
Note: No engineering fees were include required, MoDOT perform the engineeri	ed in the above proposaling at no cost to APAC-	1. We are requesting that if ar -Missouri, Inc for this propose	ny engineering is nl.

The estimated net savings is \$63,700.80. See attached sheet showing detailed breakdowns of contract items.

2.	Estimate of reduction in construction costs.	
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#### Springfield Branch Office

P.O. Box 1187 Springfield, Missouri 65801 (417) 868-6700 • Fax (417) 868-6785

APAC - Missouri, Inc. • Missouri Division • P.O. Box 1117 • Columbia, Missouri 65205 • (573) 449-0886 • Fax (573) 449-7968

March 11, 2010

MODOT Dist. #7 Attn: Randy Aulbur, R.E. 600 West Outer Road Nevada, MO 64772

Re:

JOB NO: J7P0863

Rt. 71, Vernon County

Dear Randy,

Attached are four copies of our proposal for eliminating full depth A-2 shoulder replacement on the above referenced project. We are submitting this proposal under section 104.6 of the Missouri Standard Specifications for Highway Construction. We feel that the proposal meets the Value Engineering requirements because it reduces the overall cost of the project for the taxpayers. As noted in our proposal, no engineering costs have been added to our proposal. Lam requesting a response from MoDOT, in writing, by no later than March 16, 2010.

Please advise with any questions.

Sincerely,

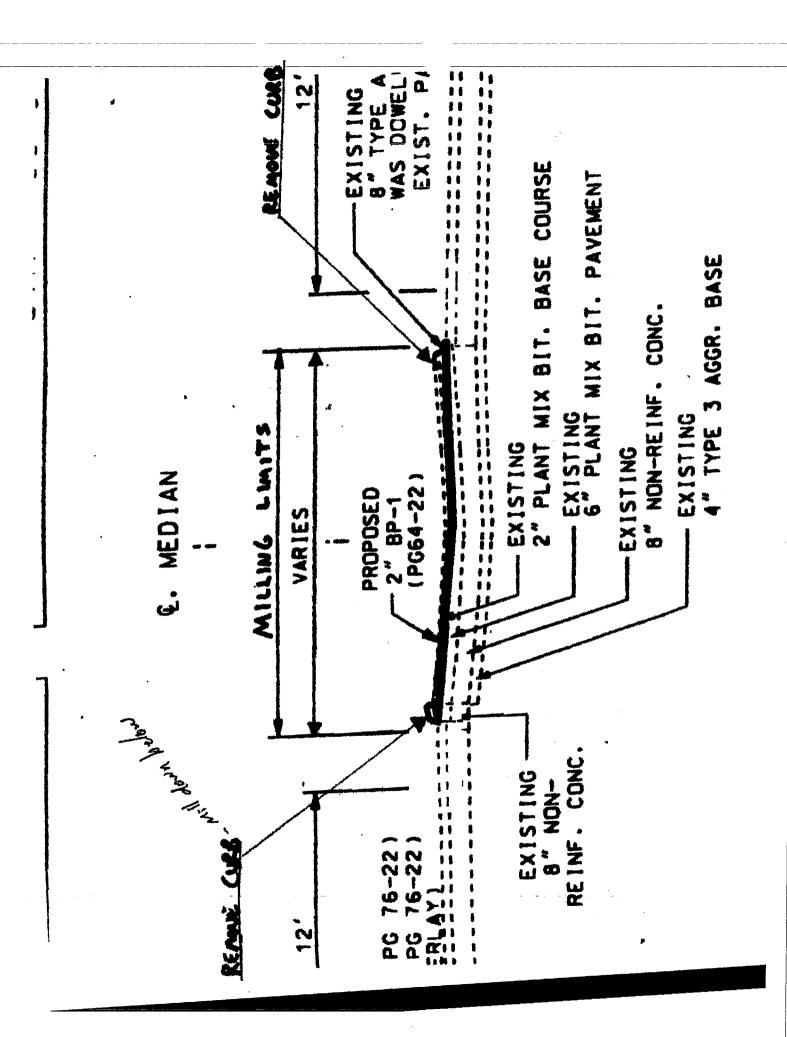
Tyson Collins
Project Engineer

3. Prediction of any effects maintenance and operated	s the proposed change(s) will have on other department costs, such as tions.
•	ees no additional costs for MODOT.
	•
4. Anticipated date for sub	omittal of detailed change(s) of items required by Section 104.6 of the
Specifications. ,	
	(unic)
	nange order to obtain maximum cost reduction, noting the effect of contract
completion time or deliv	ery schedule.
March 16, 2010	No change to completion date or schedule.
(date)	(effect)
` '	· ·
6. Dates of any previous or	concurrent submission of the same proposal.
	N/A
	(date and/or dates)
•	(duto micros dutos)
Additional Comments:	
Additional Comments.	
•	
** P	ortion Below This Line To Be Filled Out by MoDOT **
Comments:	or of this proposal with the stipulation that desina
И Л.	1.12 I fam is maintained air to the
The removal process	a solin roundation is maintained prior to the
placement of the 2"	overlay. It poor conditions exist within the limits of
the original proposed	42-shoulder, and tional depth of BP-1 may be required
The original proposed	3-11-10
	Dayment Dy Resident Cugnion 1746
placemen tof the 2'the original proposed	or of this proposal with the stipulation that human a solid foundation is maintained prior to the overlay. If poor conditions exist within the limit 42-shoulder, additional depth of BP-1 may be 18  Submitted By Resident Engineer Date

Comments: Ic	mar		
Approval Recommended Rejection Recommended		Balts t Engineer	3-//-/0 Date
Comments:	APPROVED PER	DISTACT RA	CO M MENSALA ON
	David D.C	300 or (25	30) 5-18-10
Rejection		nd Materials Engineer	Date

Distribution:

Resident Engineer, Project Manager, District Operations Engineer, State Construction and Muterials Engineer \*Yelue Engineering Administrator - \*MoDOT, P.O. Box 270, Jufferson City, MO 65102



APAC-Missouri Inc. Rt. 71 Vernon County J7P0863

Rt. 71

STA. 747+95.00 -> 766+04.13

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臺	Ousmity		37	37	1638 SY	1636,SY	270 TN	1452 LF	361815	50.7
	Description	Removal of Improvements	Subgrade Compaction (6 Inch Depth)	Subgrade and Shouldering Class 1	Type 1 Aggregate for Base (4 In. Thick)	Type A-2 Shoulder	Bluminous Pavement PG-64- 22 (BP-1)	6 In. White High Build Acrylic Walerborne Pavement Marking Paint	6 In. Yellow High Bulkd Acrylic Weterborns Pavement Marking Paint	Bituminous Shoulder Rumble Strip
	men	10	ଛ	8	40	30	09	270	440	310

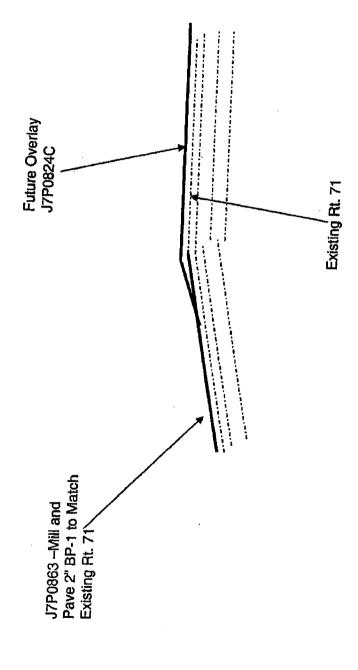
Total

\$ 120,772.63

57,071,83

Itam	Description   Quanty   Unit   Unit	Ouanity		Quantity Unit Price	T	F	Total Brica
10	Hemoval of Improvements	~	S	\$ 30,859.00	<del> </del>	57	30 850 OC
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Ş	Type 1 Aggregate for Base (4 in. Thick)	. 0	ΛSO	S	<del> </del>	w	,
22		O	AS O	\$ 25.60	<del> </del>	9	,
S.	Bituminous Pavement PG-64-22 (BP-1)	358 TN	2	5 69 15	-	65	07 503 50
270	6 In. White High Build Acrylic Waterborne Pavernent Marking Paint	O	<u>п</u>	65	<u> </u>		
440	6 in. Yebow High Build Actylic Waterborne Pavement Marking Paint	C	. и			9 6	
310	Bihanimous	0	0 STA			n to	
XX	Typa A-2 Shoulder	62687	ŝ	\$ 57.	57.59	50	3.605.13

63,700.80 31,850.40 Net Savings \$ 50/50 Split \$



Contract ID:	090925-703	Fed St/Pr Prj Nbr:	J7P0863
Status:	Active	Primary PCN	J7P0863
District:	07 OrgCode: 7CG		Funding
Progress Sched:		Variance Pct: .0	Federal  State/Province
Desc:	J7P0863 - ROUTE 71 - VERNON COUNTY		<b>Both</b>
Time Charges:	Completion Date	Bid Days: 388 Bi	d Amt: \$271,194.15
Contract Type:	Construction Project \$500,000 or Less		Fed Oversight
Work Type:	SAFETY PROJECTS-SIGNALS, GUARDRIAL, SIGN		Local Oversight
		Proposal Fund	d Type:
Spec Yr:	1996 Unit System: English	Suppl Spec Bk Yr: 1996	Alt ID:

## VALUE ENGINEERING CHECK SHEET

#### TYPE OF WORK

(Check one that applies)

- □ Bridge/Structure/Footings
- □ Drainage Structures (RCP, RCB, CMP's, ect.)
- □ TCP/MOT
- X Paving (PCCP, ect.)
- □ Grading/MSE Walls
- □ Signal/Lighting/ITS
- □ Misc.

#### SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

Mill	and fill existing s	shoulders in lieu o	of remove and r	eplace.	

### SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the data	abase. If
there are special instructions, make note of them here.	

Scan proposal	only.			
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